PATENT ABSTRACTS OF JAPAN

(11)Publication number : **03-241530**
(43)Date of publication of application : **28.10.1991**

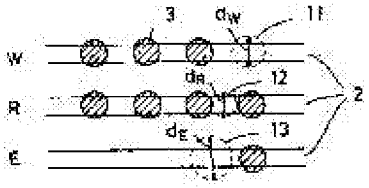
(51)Int.CI. G11B 7/00
G11B 11/10

(21)Application number : **02-036141**
(22)Date of filing : **19.02.1990**

(71)Applicant : **TOSHIBA CORP**
(72)Inventor : **ICHIHARA KATSUTARO**
ITO TAKAO

(54) OPTICAL RECORDING METHOD

(57)Abstract:
PURPOSE: To improve the erasion ratio and to improve reproduction signal strength and resolution by varying a spot size on the track of a recording surface and that in the vertical direction at the time of recording and reproducing or recording and erasing.
CONSTITUTION: When the diameter of a recording spot is set to be dw, the diameter of a reproduction spot to be dR and the diameter of an erasion spot to be dE, and when an external magnetic field is impressed on a recording direction, it comes to dR<dW<dE. Respective sizes are adjusted by using a focusing error signal and dE is selected as a just focus spot and dW as a defocus spot. Thus, the strength of a reproduction signal is high and resolution is satisfactory. When the external magnetic field is impressed on an erasion direction, it is set to be dW>dE and it can be set to recording power>erasion power if necessary. When a relative change medium is used, the erasion spot is set to be larger than the recording spot for erasion at the amorphous, crystalline and mixed-phase parts of an amorphous bit peripheral part. Thus, the quality of the reproduction signal can be improved.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]